

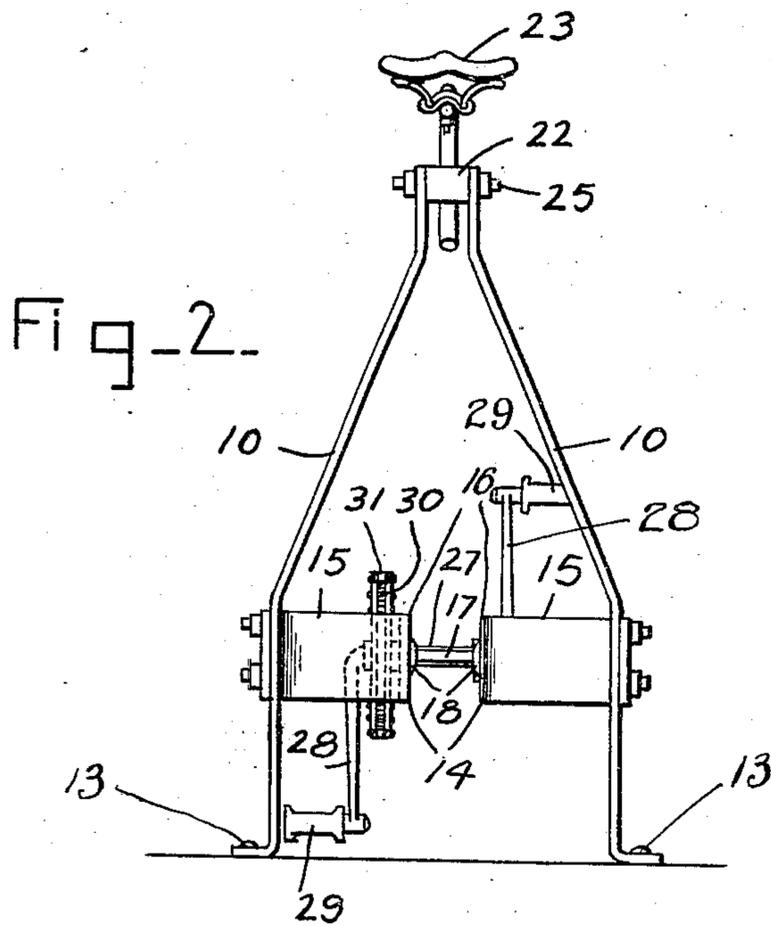
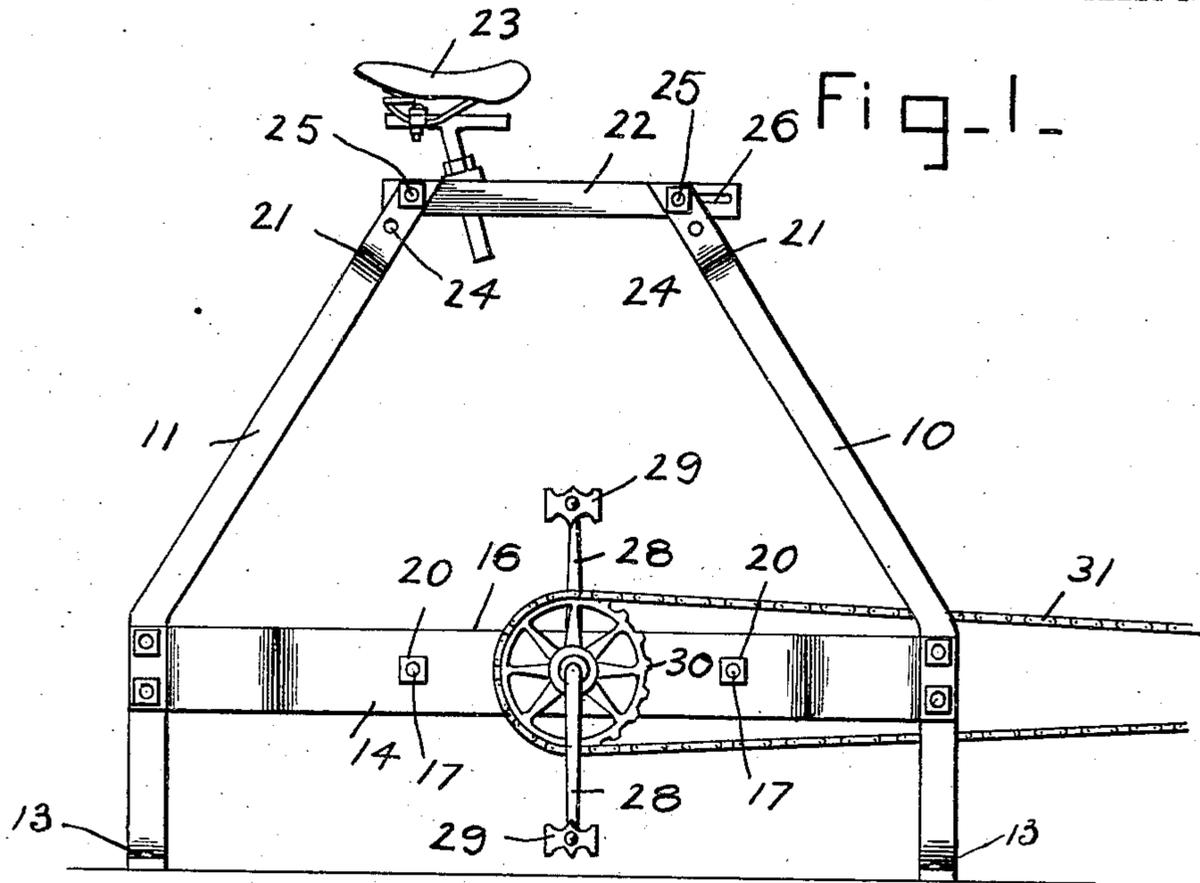
No. 854,607.

PATENTED MAY 21, 1907.

B. M. RUSE & H. D. OXLEY.  
MECHANICAL MOTOR.

APPLICATION FILED FEB. 11, 1907.

2 SHEETS—SHEET 1.



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H. D. Oxley

Witnesses

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J. G. Smith,

By

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No. 854,607.

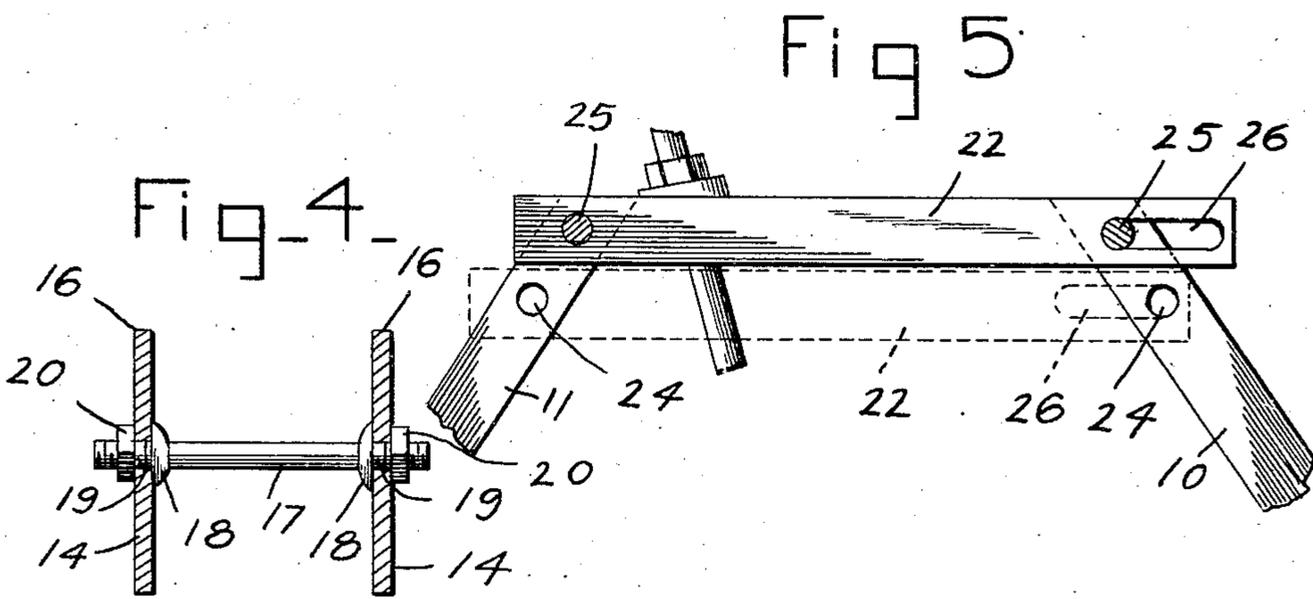
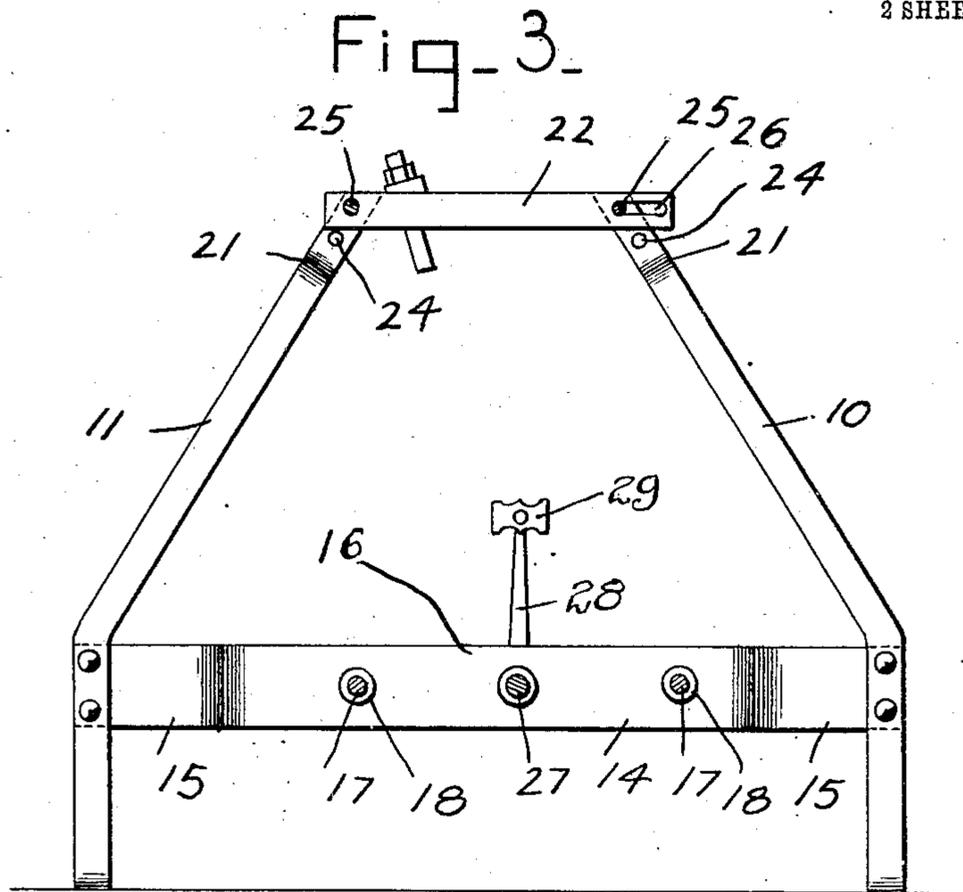
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2 SHEETS—SHEET 2.



Witnesses  
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# UNITED STATES PATENT OFFICE.

BERT M. RUSE AND HERBERT D. OXLEY, OF ST. PAUL, MINNESOTA.

## MECHANICAL MOTOR.

No. 854,607.

Specification of Letters Patent.

Patented May 21, 1907.

Application filed February 11, 1907. Serial No. 356,848.

*To all whom it may concern:*

Be it known that we, BERT M. RUSE and HERBERT D. OXLEY, citizens of the United States, residing at St. Paul, in the county of Ramsey, State of Minnesota, have invented certain new and useful Improvements in Mechanical Motors; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to mechanical motors and more particularly to that class which are manually operated.

The primary object of the invention is to provide a novel form of framework for a motor of this class which will render the motor more compact and more readily operated and will particularly well adapt it for use in connection with a separator, which is seated directly on the floor and not supported by the usual stand which stand elevates it to such a degree that it is very difficult to fill the separator.

More specifically stated the motor is of that class in which a person seated upon the frame work operates the motor by means of pedals and the advantages gained from my framework will be readily apparent from the description which is to follow.

In the accompanying drawings, Figure 1 is a side elevation of my invention in use, Fig. 2 is a front elevation thereof, Fig. 3 is a detail vertical longitudinal sectional view thereof, Fig. 4 is a detail vertical transverse sectional view taken in a line of one of the spacing bolts, and, Fig. 5 is a detail vertical sectional view showing in dotted lines the adjustment of the seat bar.

Referring more specifically to the drawings the framework of our motor is shown as comprising front and rear pairs of standards or uprights 10 and 11 respectively. These uprights of each pair converge upwardly and the pairs of the uprights are directed upwardly and toward each other. At their lower ends however each of the uprights is turned downwardly to extend in vertical position and their extreme lower ends are turned laterally as at 13 for attachment to the floor.

Connecting the corresponding uprights of each pair is a plate 14, the said plates being secured at their ends to the vertical portions 12 of the uprights, and being bent inwardly toward each other adjacent their ends as at 15 to extend in spaced parallel relation as shown at 16. These portions 16 of the plates are held in the relation stated by means of spacing bolts 17 which are provided adjacent each of their ends with collars or shoulders 18 and are threaded as at 19 outwardly of the said collar and engaged through the said portion 16 of the plates 14, there being nuts engaged upon the said threaded portions of the spacing bolts and bearing against the outer sides of the plates.

Adjacent their upper ends the uprights 10 are turned as at 21 to extend in parallel relation and received at its ends between the said upper end portions of the uprights is a seat bar 22 upon which is adjustably mounted a seat 23. Alining openings 24 are formed through the upper end portions of the uprights for the passage of bolts 25 which bolts also engage through the ends of the seat bar 22 there being preferably more than one pair of such openings to permit of vertical adjustment of the seat bar. One end of the seat bar 22 is preferably provided with a slot for the passage of the forward bolt 25 and it will be understood that the rear end of the bar having been adjusted the forward end may be quickly adjusted and without the necessity of repeated trials to cause the opening in the seat bar and the opening in the uprights to register.

Journalled in the parallel portions 16 of the plates 14 is a shaft 27 carrying pedal cranks 28 with which are connected pedals 29 and a sprocket gear 30 is also carried by this shaft 27 for the engagement of a sprocket chain 31 which is connected with the machine to be driven.

What is claimed is—

A mechanical motor comprising pairs of uprights which converge in a common direction and upwardly, plates secured at their ends to corresponding ones of the uprights, said plates being turned inwardly to extend in parallel relation to each other, spacing bolts for holding the plates in proper posi-

tion, a shaft journaled in the parallel portion  
of the plates, cranks carried by the shaft,  
pedals carried by the cranks, a seat bar sup-  
ported by the upper end of the standards and  
5 adjustable vertically therebetween, a seat  
supported upon the bar, a sprocket gear car-  
ried by the shaft, and a sprocket chain en-  
gaged with the gear.

In testimony whereof, we affix our signa-  
tures in presence of two witnesses.

BERT M. RUSE.  
HERBERT D. OXLEY.

Witnesses:

JOHN M. CANNON,  
TESS CANNON.